# Vatn Systems 2025 Full Stack Internship Take-Home Project

Use React (either JavaScript or TypeScript is fine) to create a simple modular dashboard for a data visualization app/website. Tailwind CSS is preferred for styling, but not required. No backend is required for this project, but we may ask you how you would set up a backend. You may use AI coding tools, but you must be able to explain your code.

#### Color scheme:

Main color - white: #FFFFFF Alternate 1 - blue: #B0CDD9 Alternate 2 - gray: #B0B0B0

You may add more colors or adapt the current colors as you see fit.

#### **User Stories:**

- 1. When I open the app, I am able to upload a csv of data from my local machine and see plots of the columns of the csv in time-series.
- 2. On the page(s), with all plots, I am able to:
  - a. Add another channel of data.
  - b. Remove a channel of data.
  - c. Reorder plots.
  - d. Add a new plot.
  - e. Remove a plot.
  - f. See statistics over the whole plot for the channel shown (max/min/mean/median/start/end).
  - g. See statistics over a selected area.
  - h. Zoom into the plots/change the range of plots.

## Optional skeleton code:

```
TypeScript
import React from "react";
```

```
const App: React.FC = () => {
 // enter code here
const CSVUploader: React.FC = () => {
 // enter code here
};
const PlotContainer: React.FC = () => {
 // enter code here
};
const Plot: React.FC = () => {
 // enter code here
};
const ChannelControls: React.FC = () => {
 // enter code here
};
const StatsPanel: React.FC = () => {
 // enter code here
};
export {
 App,
 CSVUploader,
 PlotContainer,
 Plot,
 ChannelControls,
 StatsPanel
};
```

### **Submission:**

Since sending code files will get flagged by our email service, please submit your take-home project as a link to a public GitHub repo via email.